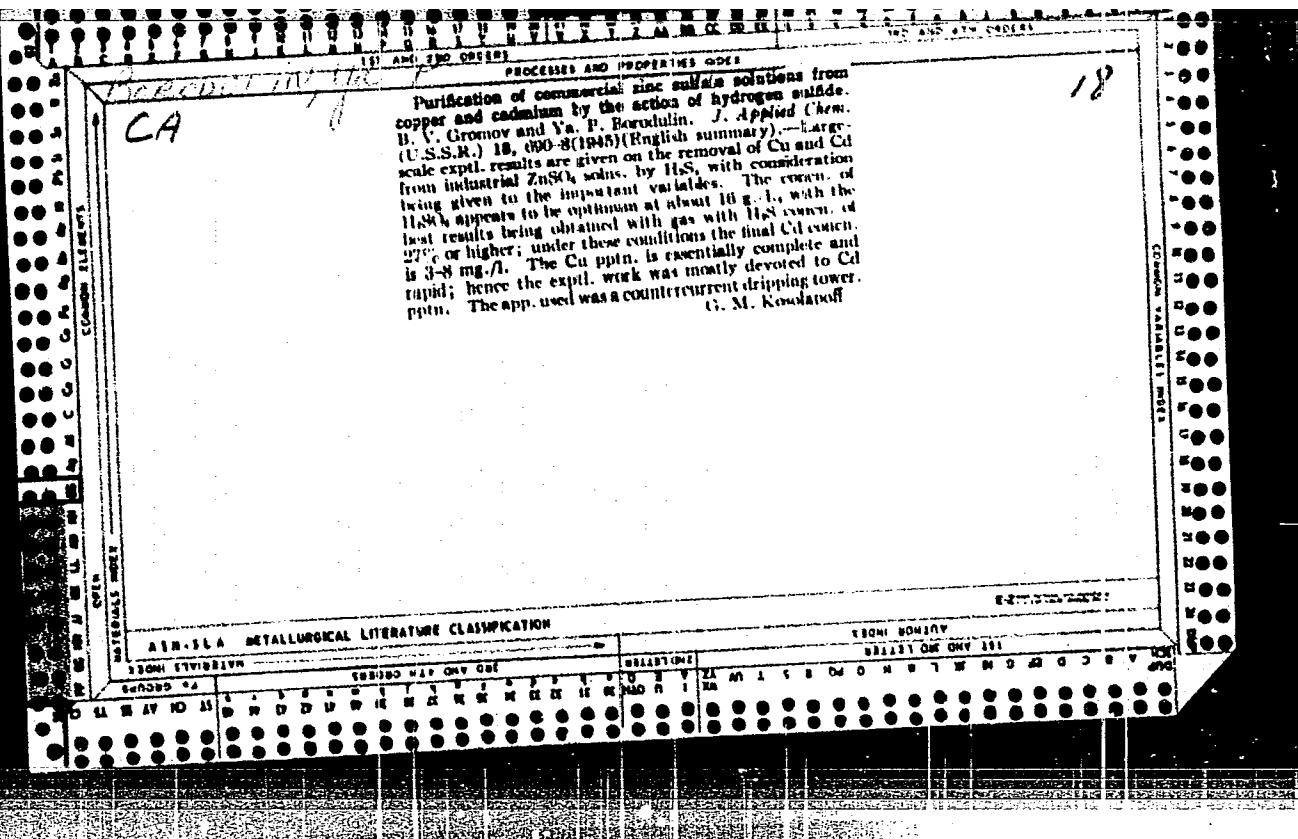


MANTROV, M.I., dots. BORODULIN, V.N., assistant, red.

[Calculation of the insulation of electrical machines;  
abstract of a course in "Calculation and design of  
electrical insulation"] Raschet izoliatsii elektriches-  
skikh mashin; konspekt po kursu "Raschet i konstruiro-  
vaniye elektricheskoi izoliatsii. Moskva, Energ. in-t,  
1964. 110 p. (MIRA 18:1)



ARONOV, A.P., starshiy inzh.-normirovshchik. Prinimali uchastiye:  
BORODULIN, Ye.P., inzh.-normirovshchik; FEOKTISTOVA, Z.G.,  
inzh.-normirovshchik. BYKHOVSKAYA, M.B., obshchiy red.;  
ZLOTNIK, E.A., red.; LOKHMANOVA, N.F., tekhn.red.

[Time standards in the furniture industry] Normativy vremenii  
na raboty po izgotovleniu mebeli. Moskva, 1958. 202 p.  
(MIRA 12:?)

(Furniture industry)

BORODULIN, Ye.G.

[REDACTED]  
Centerless grinding and power cutting of valve rods. Avt. trakt.  
prom. no. 7:29-30 J1 '55. (MLRA 8:9)

1. Zavod "Avtotraktorodetal'"  
(Automobiles--Engines--Valves)

Borodulin, Ye.G.

BORODULIN, Ye.G.

Automatizing the machining of valves and link bolts. Avt.i trakt.  
(MIRA 10:11)  
prom. no.9:36-38 S '57.

1. Kuybyshevskiy zavod "Avtotraktorodel'."  
(Automatic control) (Machine tools)

BORODULIN, Ye.G.

Automatic control of heating and extrusion forging of tractor and  
automobile valves. Kuz.-shtam. proizv. 2 no.8:14-18 Ag '60.  
(MIRA 14:2)

(Extrusion (Metals))

(Automatic control)

KUROCHKIN, K.T.; BAUM, B.A.; BORODULIN, Ye.K.

Effect of nitrogen on the surface tension of liquid iron. *Fiz.*  
met.i metalloved. 15 no.3:461-462 Mr '63. (MIRA 16:6)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.  
(Liquid metals) (Surface tension)

BORODULIN, Yu.B.

The TDG-120000/220 three-phase power transformer. Biul.tekh.-  
ekon.inform. no.5:50-51 '59. (MIRA 12:8)  
(Electric transformers)

**"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206510005-2**

BORODULIN, Yu. B., PETROV, G. N., RABINOVICH, S. I.

"High Voltage Auto-Transformers Of Big Capacity."

report to be submitted for Intl. Conference on Large Electric Systems (CIGRE),  
18th Biennial Session, Paris, France, 15-25 Jun 60.

**APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206510005-2"**

PETROV, G.W., doktor tekhn.nauk; BORODULIN, Yu.B., inzh.; RABINOVICH , S.I.,

Autotransformer for high-voltage electric networks. Elek.sta. 31  
no.7:47-53 Jl '60. (MIRA 13:8)  
(Electric transformers)

BORODULIN, Yu.B., inzh.

Standardization and use of large autotransformers. Vest. elektroprom.  
34 no.4:3-8 Ap '63.  
(MIRA 16:10)

BORODULIN, Yu.D.

Treatment of intercostal neuralgia and lumbo-sacral radiculitis  
with ethyl chloride. Klin.med. 36 no.9:144-146 S'58 (MIRA 11:10)

1. Zavedyuushchiy lineynym zdravpunktom (voronezhskaya oblast', g.  
Semiluki).

(NERVES, SPINAL, dis.  
radiculitis, ethyl chloride ther. (Rus))

(NEURALGIA, ther.  
intercostal, ethyl chloride ther. (Rus))

(ETHYL CHLORIDE, ther. use  
intercostal neuralgia & lumbo-sacral radiculitis (Rus))

BORODULIN, Yu. D. (Voronezh)

Anaphylactic shock as a complication following treatment with  
vitamin B<sub>12</sub>. Klin. med. no.8:139-141 '61. (MIRA 15:4)

1. Iz kafedry gospital'noy terapii (i. o. zav. - dotsent Z. S.  
Azarova) Voronezhskogo meditsinskogo instituta.

(ALLERGY) (CYANOCOBALAMINE)

BORODULIN, Yu.D.

Skin thermometry of the anterolateral surface of the thorax in  
the diagnosis of coronary insufficiency. Terap. arkh. 35 no.2  
37-41 '63. (MIRA 16:10)

1. Iz kafedry gospital'noy terapii (zav. - prof. M.N.Tumanovskiy)  
Voronezhskogo meditsinskogo instituta.  
(CORONARY HEART DISEASE) (BODY TEMPERATURE)

FORMULAE An. B.

Treatment of stenocardia and cardiac neurosis by means of  
ethyl chloride (removal of the lesion from the 2<sup>nd</sup> cervical  
to the 1<sup>st</sup> - 2<sup>nd</sup> thoracic vertebrae. Kardiologin 5 ml. i.v.  
24. VIII. 1958. (MFA 18-9).

1. Kafedra gospodarstvenyj sanepid. prof. N. N. Tchernovskij.  
Voronezhskogo medizinskogo instituta.

STARODUBTSEV, S.V., akademik, otd. red.; ABDULLAYEV, A.A., kand. fiz.-mat. nauk, red.; ABDURASULOV, D.M., doktor med. nauk, red.; ARIFOV, U.A., akademik, red.; BORODULINA, A.A., kand. biol. nauk, red.; IVASHEV, V.N., red.; IKRAMOVA, G.S., red.; KIV, A.Ye., red.; LOBANOV, Ye.M., kand. fiz.-mat. nauk, red.; NIKOLAYEV, A.I., kand. med. nauk, red.; NISHANOV, D., kand. khim. nauk, red.; SADYKOV, A.S., akademik, red.; TALANIN, Yu.N., kand. fiz.-mat.nauk, red.; TURAKULOV, Ya.Kh., doktor biol. nauk, red.; KHAMIDOV, R.I., red.; BABAKHANOVA, A.G., tekhn. red.

[Works of the Tashkent Conference on the Peaceful Uses of Atomic Energy] Trudy Tashkentskoi konferentsii po mirnomu ispol'zovaniyu atomnoi energii, Tashkent, 1959. Tashkent. Vol.2. 1960. 449 p.  
(MIRA 14:5)

1. Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959. 2. Akademiya nauk Uzbekskoy SSR (for Starodubtsev, Arifov, Sadykov). 3. Institut yaderny fiziki AN UzSSR (for Abdullayev, Ivashev). 4. Chlen-korrespondent AN SSSR (for Sadykov)

(Atomic energy--Congresses)

1. UCHEVATKIN, F.; BORODULINA, A. A.
2. USSR (600)
4. Alfalfa
7. Phosphorus leaf dressings for cotton and seed alfalfa, F. Uchevakin, A. Borodulina, Khlopkovodstvo 3 no. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unclassified.

Borodulina, A. A.

✓ Extra-root phosphate fertilization of cotton plants. P. I. Uchevatskin, A. A. Borodulina, V. I. Dulova, N. V. Vorotilova, and V. L. Listevskii. *Izvest. Akad. Nauk Uzbek. S.S.R.* 1953, No. 5, 8-15 (in Russian); *Referat. Zhur., Biol.* 1955, No. 3328.— $\text{KH}_2\text{P}^{\text{32}}\text{O}_4$  and  $\text{P}^{\text{32}}$ -labeled superphosphate solns. and powders were used. One leaf of exptl. cotton plants was moistened by solns. of the  $\text{P}^{\text{32}}$  compd. One leaf immediately below and 4 above and the entire plant were tested each for the presence of  $\text{P}^{\text{32}}$  compds. by the use of a radio counter. Radioactivity counts indicated that rapid absorption of the labeled compds. occurred in the treated leaf; it was then transported throughout the plant, including the buds, flowers, and seed pods. The penetration of  $\text{P}^{\text{32}}$  compds. is at a higher rate into the seed pods of the uppermost cottons and persists through the maturing period of the seed pod. Dusting expts. gave similar results but generally on a lower level of absorption. In both types of leaf treatment the presence of  $\text{P}^{\text{32}}$  compds. becomes manifest in other parts of the plant the day following the application. Evidence was elicited of the accumulation of labeled P compds. in the plants as treatment is continued. Phosphate P is assimilated by the cotton plant more effectively than superphosphate P. The coeff. of extra-root applied P as simulation is on the av. 400 times as great as via the root absorption.

B. S. Levine

COUNTRY : USSR  
SUBJECT : Cultivated Plants. Commercial. Oleiferous.  
USS. JOURN. : Sugar-Bearing  
ABST. : AKT Znani - Biologiya, No. 5, 1959, No. 10394  
AUTHOR : Uchevatskin, F.I.; Borodulina, A.A.  
INST. : Inst. of Genetics and Plant Physiology, AS UzbSSR  
TITLE : Results of Trial and Introduction to Uzbek SSR of Foliar Phosphorus Dressing of Cotton during the Fruit Formation Period in 1956.  
ORIG. PUBL. : V sb.: Materialy Mezhdunar. soveshchaniya po koordinatsii nauchno-issled. rabot po \*  
ABSTRACT : It has been proven by field and vegetation experiments made by the Institute of Genetics and Plant Physiology of the Academy of Sciences Uzeek SSR with the use of marked atoms in 1956 that foliar feeding of cotton with P during the generative stage boosts the raw material output (by 1-4 cwt/ha), reduces the dropping of ovaries, promotes an enlargement of the bolls and speeds up ripening by 4-6 days. In foliar dressing the P uptake and  
CARD : \* khlopkovodstvu, 1957, g. Tashkent, AN UzSSR,  
1/2 1957, 161-166

SUBJECT : Cultivated Plants.

X

ABD. JOUR. : Rastvor. Biologiya, No. 5, 1959, No. 30394

AUTHOR :

INST. :

TITLE :

1

ORG. PUBL.:

ABSTRACT : Its incorporation into the synthetic processes proceeds more rapidly than through the roots. Considerable amounts of phosphoric acid and hexosophosphates accumulate in the leaves and their outflow into the bolls is accelerated, leaf respiration rate is intensified and the osmotic pressure of the cell sap is increased (from 7.4 to 9 atm.) which reduces the attacks of spider mites on the plants. - D.B. Vakhmistrov

FILED: 2/2

USSR / Cultivated Plants. Technical, Oleaceous, Sugar Bearing  
Plants.

M-6

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58667

Author : Borodulina, A. A.; Sokolova, N. A.  
Inst : USSR Academy of Science

Title : The Conversion of Phosphorus in the Cotton Plant Under  
Various Water Regimes During the Blooming Stage

Orig Pub : V sb.: Vopr. fiziol. khlopotatnika i trav, Vyp. 1,  
Tashkent, AN UZ SSR, 1957, 75-87

Abstract : Vegetation experiments, started in 1953 at the Institute  
of Agriculture of the Acad. Sci. Uzbek SSR on the study  
of the conversion of phosphorus in cotton plant leaves  
(depending on various water regimes), showed that the  
content of organic forms of phosphoric compounds (with  
the exception of nucleoproteids) increases proportionally  
to an increase from 65-85% in the soil moisture. A

Card 1/2

USSR / Cultivated Plants. Technical, Oleaceous, Sugar Bearing  
Plants.

M-6

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58667

decrease of the moisture from 65 to 40% brought about a decrease of contents of hexosomonophosphates and phosphorus in nucleoproteids; in comparison with a moisture of 80%, it caused a decrease of all organic forms of phosphoric compounds. The decrease in the content of phosphates was caused mainly by the suppression of their synthesis processes. The determinations were carried out by means of the methods of marked atoms and by colorimetry. The results obtained by different methods coincided. In conclusion, an increase in soil moisture from 65 to 80% and from 40 to 65% during the blossoming stage improves the intake of phosphorus from the soil. It increases the organic forms of phosphorus; it increases fruit bearing. It also improves the yield.  
-- A. M. Smirnov

Card 2/2

105

BORODULINA, Anna Arkad'yevna; RUNOV, Viktor Ivanovich; OVCHAROV, K.Ye.,  
doktor biolog.nauk, otv.red.; KURANOVA, L.I., red.izd-va;  
BARTSEVA, V.P., tekhn.red.

[Physiological principles of foliar feeding of plants] Fiziolo-  
gicheskie osnovy vnekornevyykh podkormok rastenii. Tashkent,  
Izd-vo Akad.nauk UzSSR, 1959. 269 p. (MIRA 13:4)  
(Plants--Nutrition)

BORODULINA, A.A.; RUMOV, V.I.

Some biochemical characteristics of early-ripening cotton plants.  
Uzb. biol. zhur. no.5:28-34 '60. (MIRA 13:11)

1. Institut genetiki i fiziologii rasteniy AN UzSSR.  
(Cottonseed) (Plants—Metabolism)

BORODULINA, A.A.; PASHCHENKO, E.A.

Role of light in the metabolism of the cotton plant. Uzb. biol.  
zhur. no. 4:40-47 '60. (MIRA 13:10)

1. Institut genetiki i fiziologii rasteniy AN UzSSR.  
(COTTONS, EFFECT OF LIGHT ON) (COTTON)

STARODUBTSEV, S.V., otv. red.; ABDULLAYEV, A.A., kand. fiz.-mat. nauk, red.; ABDURASULOV, D.M., doktor med. nauk, red.; ARIFOV, U.A., akad., red.; BORODULINA, A.A., kand. biol. nauk, red.; IVASHEV, V.N., red.; IKRAMOVA, G.S., red.; KIV, A.Ye., red.; LOBANOV, Ye.M., kand. fiz.-mat. nauk, red.; NIKOLAYEV, A.I., kand. mad. nauk, red.; NISHANOV, D., kand. khim. nauk, red.; SADYKOV, A.S., akad., red.; TALANIN, Yu.N., kand. fiz.-mat. nauk, red.; TURAKULOV, Ya.Kh., doktor biol. nauk, red.; GAYSINSKAYA, I.G., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Transactions of the Conference on the Peaceful Uses of Atomic Energy held at Tashkent in 1959] Trudy Konferentsii po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, Vol.1. 1961. 410 p. (MIRA 14:9)

1. Konferentsiya po mirnomu ispol'zovaniyu atomnoy energii. 2. Institut yadernoy fiziki AN Uzbekskoy SSR (for Starodubtsev, Arifov).
3. Institut fiziki AN Uzbekskoy SSR (for Abdullayev). 4. Chlen-korrespondent AN SSSR i AN Uzbekskoy SSR (for Sadykov).

(Atomic energy--Congresses)

TURAKULOV, Ya.Kh., doktor biolog. nauk, otv. red.; ABDULLAYEV, A.A., kand. fiz.-mat. nauk, red.; ABDURASULOV, D.M., doktor med. nauk, red.; ARIFOV, U.A., akademik, red.; BORODULINA, A.A., kand. biol. nauk, red.; IVASHEV, V.N., red.; IKRAMOVA, G.S., red.; KIV, A.Y., red.; LOBANOV, Ye.M., kand.fiz.-mat. nauk, red.; NIKOLAYEV, A.I., kand. med. nauk, red.; NISHANOV, D., kand. khim. nauk, red.; SADYKOV, A.S., akademik, red.; STARODUBTSEV, S.V., akademik, red.; TALANIN, Yu.N., kand. fiz.-mat. nauk, red.; GORKOVY, P.I., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Transactions of the Tashkent Conference on Peaceful Uses of Atomic Energy] Trudy Tashkentskoy konferentsii po mirnomu ispol'zovaniyu atomnoi energii, Tashkent, 1959. Vol.3. 1961.  
501 p. (MIRA 15:3)

1. Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959. 2. Akademiya nauk Uzbekskoy SSR  
(for Arifov, Sadykov, Starodubtsev).

(Atomic energy—Congresses)

STARODUBTSEV, S.V., akad., otv. red.; ABDULLAYEV, A.A., kand. fiz.-mat. nauk, red.; ABDURASULOV, D.M., doktor med. nauk, red.; ARIFOV, U.A., akad., red.; BORODILINA, A.A., kand. biol. nauk, red.; IVASHEV, V.N., red.; IKRAMOVA, G.S., red.; KIV, A.Ye., red.; LOBANOV, Ye.M., kand. fiz.-mat. nauk, red.; NIKOLAYEV, A.I., kand. med. nauk, red.; NISHANOV, D., kand. khim. nauk, red.; SADYKOV, A.S., akad., red.; TALANIN, Yu.N., kand. fiz.-mat. nauk, red.; TURAKULOV, Ya.Kh., doktor biol. nauk, red.; GAYSINSKAYA, I.G., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Transactions of the Tashkent Conference on the Peaseful Uses of Atomic Energy] Trudy Tashkentskoy konferentsii po mirnomu ispol'zovaniyu atomnoi energii, 1959. Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR. Vol.1. 1961. 410 p. (MIRA 15:5)

1. Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959. 2. Akademiya nauk Uzbekskoy SSSR (for Starodubtsev, Arifov, Sadykov). 3. Chlen-korrespondent Akademii nauk SSSR (for Sadykov). 4. Institut yadernoy fiziki Akademii nauk Uzbekskoy SSR (for Arifov, Lobanov). 5. Institut krayevoy eksperimental'noy meditsiny Akademii nauk Uzbekskoy SSR (for Turakulov).

(Atomic energy--Congresses)

BORODULINA, A.A.; OVCHAROV, K.Ye.

Effect of nicotinic acid on the uptake of phosphorus by cotton  
plants. Fiziol. rast. 9 no.3:265-269 '62. (MIRA 15:11)

1. Institute of Genetics and Plant Physiology, Academy of Sciences  
of Uzbek S.S.R. and K.A.Timiriazev Institute of Plant Physiology  
U.S.S.R. Academy of Sciences, Moscow.

(Cotton--Fertilizers and manures)  
(Plants, Effect of nicotinic acid on)  
(Phosphorus)

BOROD'LIJNA, A. A.

Dissertation defended at the Institute of Plant Physiology imeni V. A. Timiryazev for the academic degree of Doctor of Biological Sciences:

"Physiological Basis for Extracortical Phosphorus Top-Dressing of Cotton."

Vestnik Akad Nauk, No. 4, 1963, pp. 119-145

BORODULINA, A.A.; MASLENNIKOVA, Z.A.

Use of mixed liquid fertilizers for the foliar sowing of  
cotton. Uzb. biol. zhur. 7 no.5:49-52 '63.  
(MIRA 18:11)  
1. Institut genetiki i fiziologii rasteniy AN UzSSR.

BORODULINA, F.Z.; KOLOBAYEVA, L.Q.; OPARIN, A.I., akademik.

Evaluation of photosynthesis based on the accumulation of carbon in leaves.  
Dokl.AN SSSR 90 no.5:913-916 Je '53. (MLRA 6:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (for Borodulina, Kolobayeva). 2. Akademiya nauk SSSR (for Oparin). (Photosynthesis)

BORODULINA, F.Z.; KOLOBAYEVA, L.G.; ZVEREVA, T.A.

Determination of photosynthesis under field conditions. Trudy Inst.  
fiziol.rast. 10:250-256 '55. (MIRA 8:9)

1. Kafedra fiziologii rasteniy Moskovskogo gosudarstvennogo universiteta  
imeni M.V. Lomonosova. (Photosynthesis)

BORODULINA, F.Z.

Effect of soil salinity on the growth of oak seedlings during the  
first years of their life. Dokl.AN SSSR 107 no.3:477-480 Mr '56.

(MLRA 9:7)

1.Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova,  
Kafedra fiziologii rasteniy. Predstavлено академиком V.N.Sukachevym.  
(Oak) (Soil chemistry)

BORODULINA, F.Z., KULAYEVA, O.N.

Some specific features of the water cycle in oak seedlings on saline soils. Nauch.dokl.vys.shkoly; biol.nauki no.1:162-167 '58 (MIRA 11:3)

1. Predstavlena kafedroy fiziologii rasteniy Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(OAK)

(ALKALI LANDS)

(PLANT PHYSIOLOGY)

BASLAVSKAYA, Sarra Saulovna; BORODULINA, Frida Zakharovna; POTAPOV, Nikolay Gavrilovich; TIL'GOR, Nikolay Karlovich[deceased]; TRUBETSKOVA, Ol'ga Mikhaylovna; SOKOLOVA, N.A., red.; LAZAREVA, L.V., tekhn. red.

[Brief laboratory manual on plant physiology] Malyi praktikum po fiziologii rastenii. Izd.4., perer. Moskva, Izd-vo Mosk. univ., 1961. 68 p. (MIRA 14:8)  
(Plant physiology--Laboratory manuals)

BORODULINA, F. Z.; KUDRYAVTSEVA, N. V.; TAN TI [T'ang T'i]

Changes in the water economy and photosynthesis of corn of various ages. Nauch. dokl. vys. shkoly; biol. nauki no.3:145-149 '62. (MIRA 15:7)

1. Rekomendovana kafedroy fiziologii rasteniy Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova.

(CORN(MAIZE)) (PHOTOSYNTHESIS)  
(PLANTS--WATER REQUIREMENT)

KONAREVA, Z.P.; KOLYASKINA, G.M.; KIRILLOV, M.P.; BORODULINA, G.A.;  
TALISMAN, L.V.

Pyrolysis of straight-run gasoline in an industrial furnace.  
Khim. prom. no.4:267-269 Ap '63. (MIRA 16:8)

BORODULINA, I. A.

DEMINT, Yevgeniy Nikolayevich; MIKHAYLOV, N.Ye., retsenzent; VAYNTRAUB, D.A.,  
inzhener, redaktor; BORODULINA, I.A., redaktor izdatel'stva;  
SOKOLOVA, L.V., tekhnicheskiy redaktor

[Progressive methods of designing and preparing pressmoulds]  
Progressivnye metody proektirovaniia i izgotovleniya pressform.  
Moskva, Gos.sauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957.  
126 p. (MLRA 10:7)  
(Pressing machinery) (Plastics--Molding)

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'BORODULINA, I. A.

SOKOLOV, Aleksey Nikolayevich; LIPNITSKIY, Abram Markovich; SVERDLOV, V. I.,  
inzhener, retsenzent; SHAPIRO, O.E., inzhener, redaktor; BORODULINA,  
I.A., redaktor izdatel'stva; SOKOLOVA, L.V., tekhnicheskiy redaktor

[Mechanizing the work of trimming and cleaning castings] Mekhaniza-  
tsiya rabot po obrubke i ochistke lit'ia. Moskva, Gos.nauchno-tekhnik.  
izd-vo mashinostroit. lit-ry, 1957. 181 p. (MLRA 10:8)  
(Founding)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

*BEREDELSKAIA, T. A.*

RUSSIMKOVSKIY, Igor' Pavlovich; MONDRUS, D.B., kandidat tekhnicheskikh nauk,  
retsenzent; DOMSKOY, A.V., doktor tekhnicheskikh nauk, redaktor;  
~~PAPAROVICH, V. I.~~, redaktor izdatel'stva; SOKOLOVA, L.V., tekhnicheskiy redaktor

[New practices in induction heating] Novoe v praktike induktsionnogo  
nagreva. Moscow, Gos. nauchno-tekhn. izd-vo mashino-stroit. lit-ry,  
1957. 64 p.  
(Induction heating) (Metals--Heat treatment)

BORODULINA, I. A.

RUBINOV, Aleksandr Davidovich, KUTAY, A.K., kand.tekhn.nauk, dots., retsenzent,  
KHUDARKOVSKIY, N.P., inzh.retsenzent., ABADZHI, K. I., inzh.red.;  
BORODULINA, I.A., red.; POL'SKAYA, R.G. tekhn.red.

[Organizing and carrying out laboratory work in the subject "Tolerances,  
fits, and engineering measurements."] Organizatsiya i provedenia  
laboratornykh rabot po predmetu "Dopuski, posadki i tekhnicheskie  
izmereniia." Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.  
lit-ry, 1958. 150 p. (MIRA 11:9)

(Tolerance (Engineering))  
(Mensuration)  
(Engineering)

BORODULINA, K.M.

ODINTSOV, Aleksey Borisovich; BORODULINA, K.M., vedushchiy redaktor;  
PLOSINA, A.S., tekhnicheskij redaktor

[Safety measures in laboratories of the petroleum industry]  
Tekhnika bezopasnosti v laboratoriakh predpriatii neftianoi  
promyshlennosti. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-  
toplivnoi lit-ry, 1957. 119 p. (MLRA 10:9)  
(Petroleum industry--Safety measures)  
(Chemical laboratories--Safety measures)

Бородулина, К. М.

ARUTYUNOV, Iosif Khristoforovich; BORODULINA, K.M., red.; POLOSINA, A.S.,  
tekhn.red.

[Starting and adjusting engineering equipment in petroleum  
refineries; electric desalting, refining, thermal and catalytic  
cracking, gas fractionation and alkylation] Opyt pуска i наладки  
tekhnologicheskikh ustanovok neftepererabatyvaiushchikh zavodov;  
elektroobessolivanie, peregonka nefti, termicheskii i kataliticheskii  
krekingi, gazofraktsionirovanie i alkilirovaniye. Moskva, Gos.  
nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1957. 168 p.

(MIRA 11:1)

(Petroleum--Refining--Equipment and supplies)

BORODULINA, K.M.

TOPCHIYEV, A.V., akad., red.; TROFIMUK, A.A., red.; TREBIN, F.A., doktor tekhn. nauk, red.; FEDYNSKIY, V.V., doktor fiziko-matematicheskikh nauk, red.; SUKHANOV, V.P., inzh., red.; BORODULINA, K.M., ved. red.; DOBRYNINA, N.P., ved. red.; PETROVA, Ye.A., ved. red.; TROFIMOV, A.V., tekhn. red.

[The Fourth International Petroleum Congress] Rome, 1955. IV Mezhdunarodnyi neftianoi kongress. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Vol. 10. [Supplements and discussions] Dopolneniya i diskussii. 1958. 475 p. (MIRA 11:11)

1. Chlen-korrespondent AN SSSR (for Trofimuk). 2. Chleny delegatsii SSSR na IV Mezhdunarodnom neftyanom kongresse (for Topchiyev, Trofimuk, Trebin, Fedynskiy, Sukhanov).  
(Rome--Petroleum--Congresses)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

BARANOVSKIY, Nikolay Fedorovich; SUKHAREV, Mikhail Fedorovich; BORODULINA,  
K.M., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Ozocerite; extraction, processing, and use] Ozokerit; dobycha,  
pererabotka i primenenie. Moskva, Gos. nauchno-tekhn.izd-vo neft.  
i gorno-toplivnoi lit-ry, 1959. 205 p. (MIRA 12:1)  
(Oxocerite)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

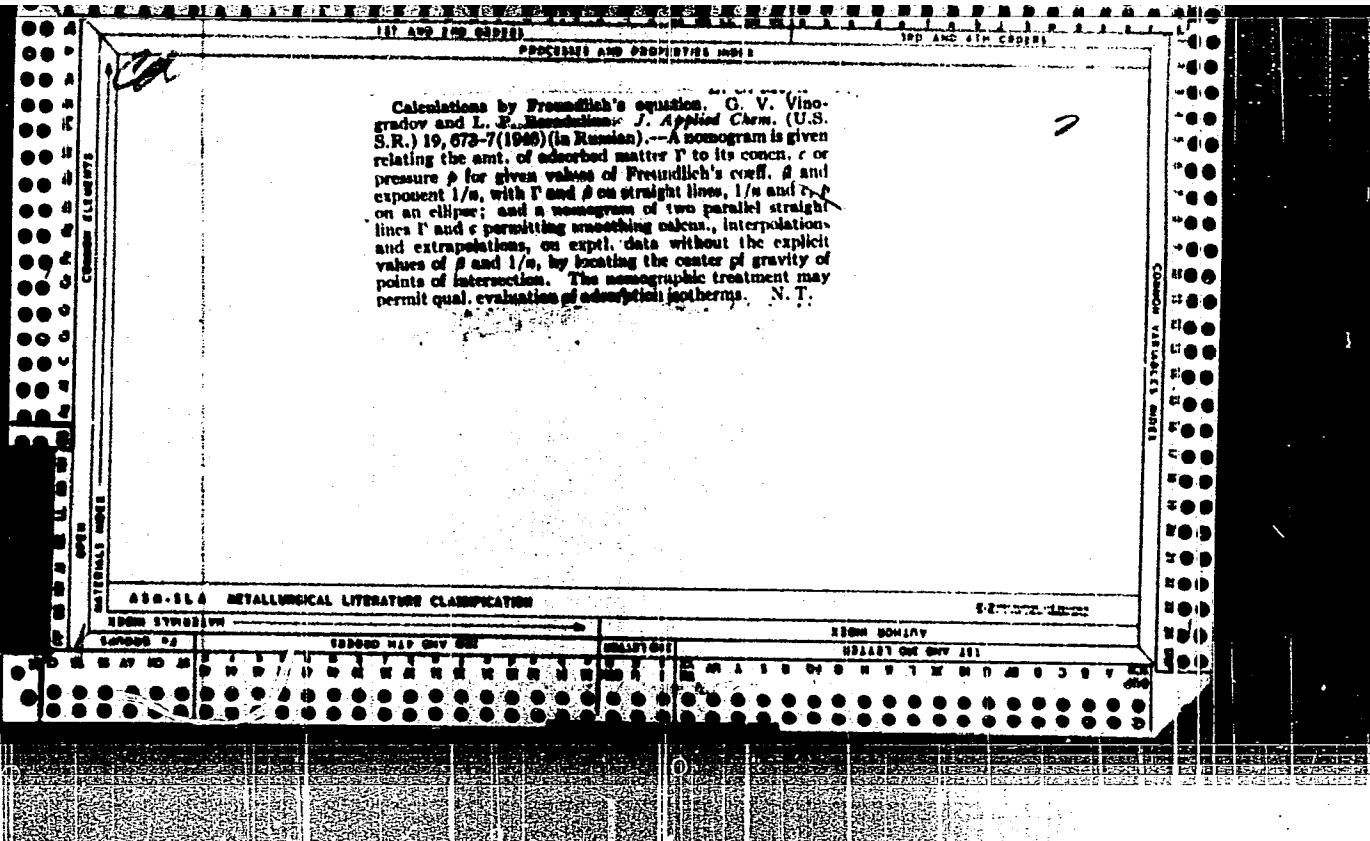
ZEL'KIND, Yefim Markovich; BORODULINA, K.M., vedushchiy red.;  
POLOSINA, A.S., tekhn.red.

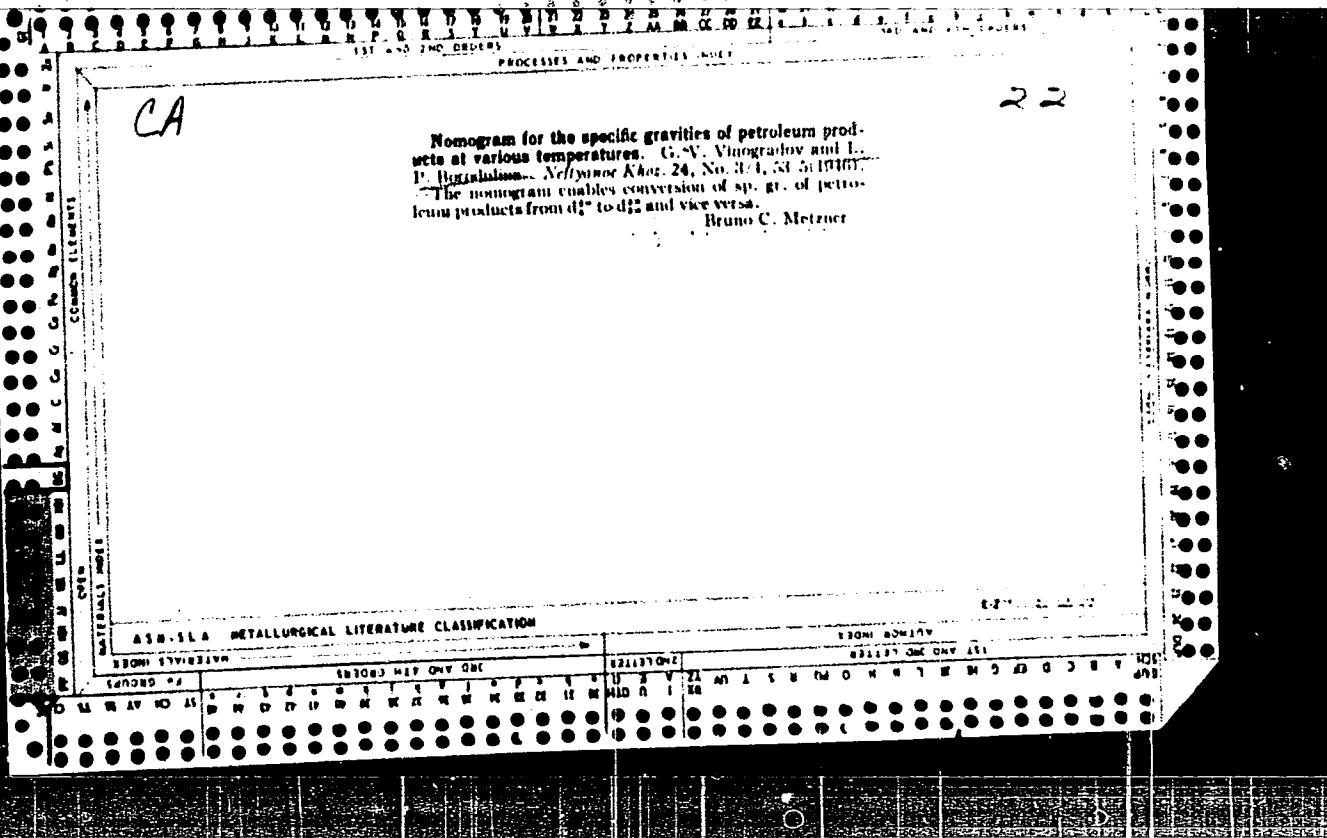
[Production and consumption of fuels and lubricants in  
capitalist countries; present status and basic tendencies]  
Proizvodstvo i potreblenie topliv i masel v kapitalisticheskikh  
stranakh; sovremennoe sostoianie i osnovnye tendentsii. Moskva,  
Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. 1959.  
(MIRA 12:7)

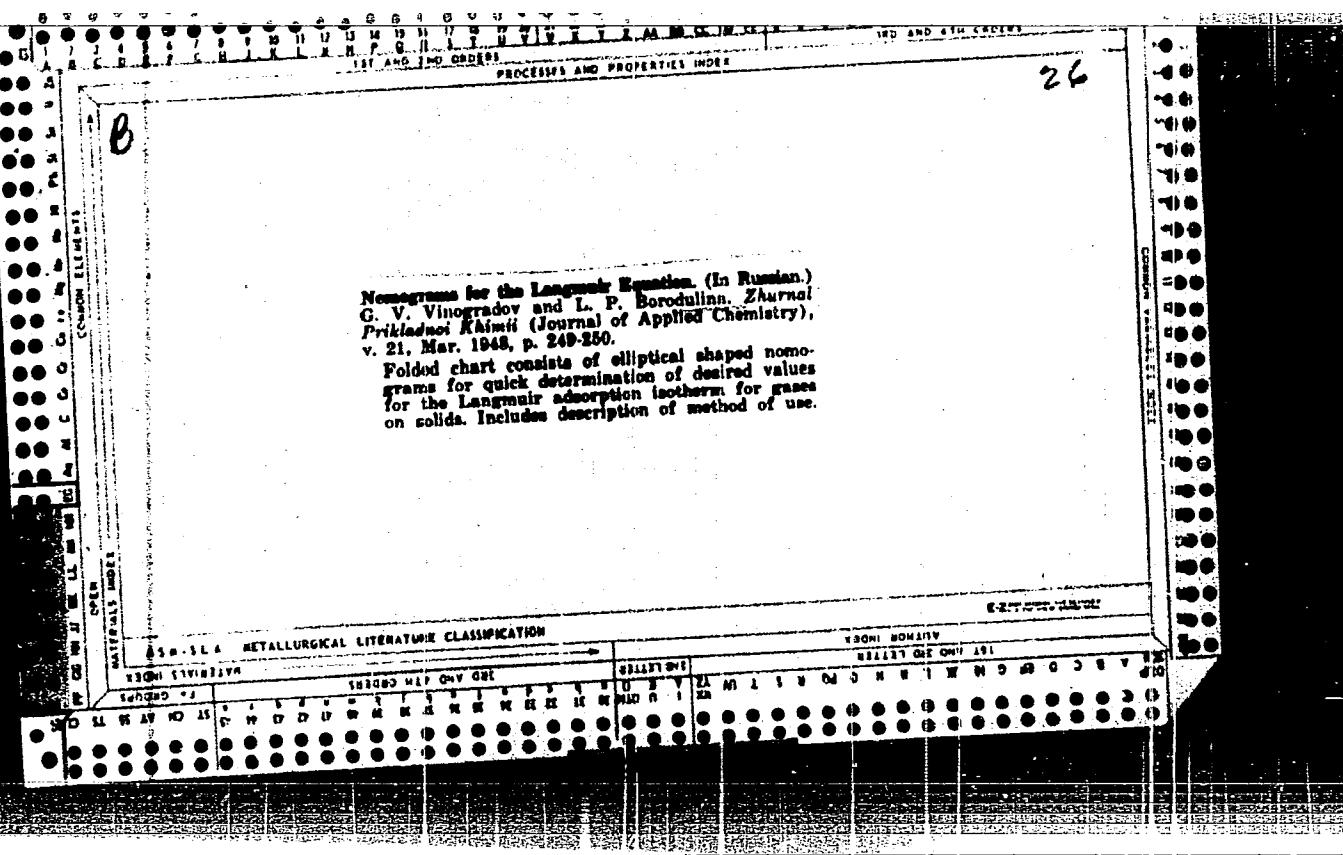
279 p.

(Fuel)

(Lubrication and lubricants)







"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

VENIKOV, V.A., doktor tekhn.nauk, prof.; BORODULINA, L.P.

Determining time constants of electric circuits by means of  
nomograms. Trudy MEI no.26:236-238 '57. (MIRA 11:9)  
(Electric circuits) (Nomography (Mathematics))

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

SUVOROV, V.A., inzh.; BORODULINA, L.P., inzh.

Nomogram for determining steam content in the bubbling of  
steam through water. Teploenergetika 10 no.12:89-90 D '63.  
(MIRA 17:8)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

LASHKEVICH, A.M.; TERENT'YEVA, A.A.; IVANOVA, L.S.; BORODULINA, M.A.;  
VELICHENKO, I.N.; NIKULENKO, V.S.; KONSHINA, T.I.; SHAKHOVA, T.P.;  
NYASHINA, A.A.; YASINSKAYA, Z.A.; AGAL'TSEVA, N.B.; SEL'MENSKAYA,  
Ye.G.; KRETSMER, V.L.; KONONOVICH, L.K.; FEDORAYEVA, A.M.; TKACHUK,  
L.Ya.; VYATKINA, G.A.; SLOUSHCH, V.S.; RACHINSKAYA, L.N.; PORTNAYA,  
R.Yu.; KARAKOVSKAYA, E.M.; POKROVSKAYA, M.A.; KORNEVA, A.I.;  
YERSHOVA, K.F., otv. red.; Prinimal uchastiye KAMANOV, M.I., red.;  
LAGAREVA, A.P., otv. za vypusk; NIKITINA, I.P., tekhn. red.

[Economy of Novosibirsk Province; collection of statistics] Narodnoe  
khoziaistvo Novosibirskoi oblasti; statisticheskii sbornik. Novo-  
sibirsk, Gosstatizdat TsSU SSSR, 1961. 331 p. (MIRA 15:6)

1. Novosibirsk. Oblastnoye statisticheskoye upravleniye. 2. Na-  
chal'nik Statisticheskogo Upravleniya Novosibirskoy oblasti (for  
Yershov). 3. Zamestitel' nachal'nika Statisticheskogo Upravleniya  
Novosibirskoy oblasti (for Kamanov).

(Novosibirsk Province—Economic conditions)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

BORODULINA, M.Z., fel'dsher (Moskva)

Tracheobronchoscopy in tuberculosis of the lungs. Fel'd. i akush.  
21 no.7:10-12 Jl '56. (MIRA 9:10)  
(TRACHEA--EXPLORATION) (TUBERCULOSIS)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

BORODULINA, N.A.

PROCESSES AND PROPERTIES INDEX

100 AND 101 COPIES

COMMON ELEMENTS

MATERIALS

A.I.B.-I.L.A. METALLURGICAL LITERATURE CLASSIFICATION

EXTRACTS, REPORTS

EDITION, EDITION

REPORTS, ONE CHV. AST

Category: USSR/Diseases of Farm Animals, Diseases Caused by Bacteria V-2  
and Fungi

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72273

of the organism; the first - a high one, the second - a low.  
Cytological studies of slides from the infection focus gives an  
insight into the organism's reactivity, so that the proper methods  
of treatment may be chosen.

Card : 2/2

-4-

BORODULINA, N.A.

R-2

USSR / Diseases of Farm Animals. Diseases Caused  
by Helminths.

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7336

Author : G. I. Ronzhina, N. A. Borodulina

Inst : Not Given

Title : The Pathogenesis, Clinic, and Pathomorphological  
Changes in Coenurosis of Sheep.

Orig Pub: Tr. Saratovsk. zootekh-vet. in-ta, 1956, 6, 70-76.

Abstract: The authors differentiate three forms of coenurosis:  
the acute form starts on the first to the 10th day  
after infection and lasts 15 to 20 days, is charact-  
erized by a heightening of temperature, a sharp "pleo-  
cytosis" of a lymphocytic-eosinophilic character  
and an increase of albumen in the liquid. The sub-  
acute form develops in the course of 66-98 days, and  
is characterized by a congested nipple at the bottom

Card 1/2

C:

USSR / Diseases of Farm Animals. Diseases Caused by Protozoa.

R

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7466

Author : Borodulina, N. A.

Inst : Saratov Zootechnical Veterinary Institute

Title : The Pathologo-Anatomic Changes in Nuttalliosis of  
Horses

Orig Pub : Tr. Saratovsk. zootekhn. vet. in-ta, 1956, 6, 109-110

Abstract : In the acute form of nuttalliosis in horses, patho-morphologic changes are of a general septic character without a marked reticulo-endotheliosis peculiar to infectious anemia of horses. In the chronic form of nuttalliosis, pathologo-anatomical changes manifest themselves by atrophic processes in parenchymatous organs and general emaciation. The patho-morphologic picture of nuttalliosis may be utilized for a differential diagnosis of infectious anemia, especially with

Card 1/2

24

USSR / Diseases of Farm Animals. Diseases Caused by Protozoa.

R

Abs Jour : Ref Zhur - Bibliogija, No 2, 1959, No. 7466

the assistance of clinico-epizootologic data and a  
blood-parasite reaction. From the author's summary

Card 2/2

BORODULINA, N.A., prof.; BYSTROVA, T.A., assistant

Effect of the feeding of urea on morphologic changes in the  
organs of sheep and calves. Trudy SZVI 11:231-237 '62.

(MIRA 16:7)

(Urea as feed)

(Sheep—Feeding and feeds)

(Calves—Feeding and feeds)

RECORDED WITH K2

Ionic activity in colloidal solutions. III. Donnan effect in ultrafiltration of colloidal solutions of ferric hydroxide. A. J. Rabinovitsch and R. Rontaljina (*Acta Physicochim. U.R.S.S.*, 1942, **18**, 348 - 356). The sum of pCl and pH required by Donnan's equilibrium holds for  $\text{Fe(OH)}_3$  sols, the ultrafiltrates, and residues. For all the sols studied there were considerable differences in the ionic composition of the sol and ultrafiltrate. A. J. M.

BORODULINA, R.

18

16

- \*232. Psychrometric Method for Determination of vapor Concentrations in Vapor-Air Mixtures. (In Russian.) R. N. Rubinstein and R. I. Borodulina. Factory Laboratory (U.S.S.R.), v. 18, Aug. 1947, p. 976-982.  
The psychrometer is widely used for determining water vapor concentrations. Describes development of a method for determination of the concentration of any vapor-air mixture, such as benzene air, etc., using the psychrometer.

AMERICA METALLURGICAL LITERATURE CLASSIFICATION

ACCESSION NR: AP4044555

S/0204/64/004/004/0624/0633

AUTHOR: Revel'skiy, I. A., Borodulina, R. I., Khokhlova, T. D.

TITLE: Continuous determination of the H/C ratio in the molecules of components of hydrocarbon mixtures and other organic compounds

SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 624-633

TOPIC TAGS: hydrogen, carbon, hydrocarbon, gas chromatography, molecular weight, quantitative analysis, elemental analysis

ABSTRACT: A continuous method is described for determining the elemental composition, molecular weight and functional groups of the components of hydrocarbon mixtures, separated by gas chromatography. Chromatograms are given for mixtures of ethylene, propylene and isobutene, before and after combustion, at 40°C and a nitrogen flow rate of 25 ml/min. The experimental apparatus and procedure are described in detail. The ratio of the number of hydrogen atoms to the number of carbon atoms ( $m/n$ ) in the molecule of each hydrocarbon component was calculated on the basis of the areas of the  $\text{CO}_2$  and  $\text{H}_2$  peaks after preliminary calibration. Hydrocarbons of at least 98% purity were used, and the tabulated data show an accuracy of 2-6%. It was also found that the  $m/n$  value

Card 1/2

ACCESSION NR: AP4044555

does not depend on the volume of the analytical sample. This makes it possible to determine m/n for any component of a mixture, the concentration of which is unknown. The continuous determination of the elemental composition of the components of a hydrocarbon mixture does not require either preliminary weighing of the sample or calibration of the detector for each component. This method can therefore be used for the elemental analysis of gases and for the analysis of small amounts (tenths of mg) of low-boiling compounds present in low concentration in chromatographic mixtures. The determination of the elemental composition of the components of non-hydrocarbon mixtures is more difficult. This can be determined only if the content (%) of the component in the mixture (i.e. its weight) and the weight of the whole sample are known. Determining the weight of each component of a hydrocarbon mixture makes it possible to carry out a rapid quantitative analysis without preliminary determination of corrections for heat conductivity. Formulas are given for calculating the C and H content in the molecule of the substance in % by weight. Orig. art. has: 4 tables, 5 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 27Nov63

NO REF SOV: 001

SUB CODE: OC

OTHER: 037

Card 2/2

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

REVBIL'KII, I.A.; BORODULINA, R.I.; SOVANOVА, T.M.

Determining the molecular masses of mixture components using Martin's  
balance. Neftekhimiia 4 no.5:804-810 S-0 '64.

(MIRA 18:1)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

REVEL'SKIY, I.A.; BORODULINA, R.I.; SOVAKOVA, T.M.; KLIMCOVA, V.G.

Rapid determination of the number of carbon and hydrogen atoms  
in the molecules of gaseous compounds. Dokl. AN SSSR 159 no.4:  
861-864 D '64 (MIRA 18:1)

1. Predstavлено академиком М.И. Кабачником.

BORODULINA, R. I.; REVEL'SKII, I. A.; SHTYLENKO, A. N.

Chromatographic method for determining small amounts of acetonitrile  
in acrylonitrile. Plast.massy no. 7:49-51 '64. (MIRA 17:10)

**BORODULINA, T.L.**

Morphological and functional research on birds' tails. Trudy  
Inst.morf.shiv. no.9:76-99 '53.  
(Tail) (Birds)  
(MLRA 7:11)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

BORODULINA, T.L.

Biology and the importance of the common tern to the fishing  
industry. Trudy Inst.morf.shiv. no.9:118-139 '53.(MLRA 7:11)  
(Terns) (Birds, Injurious and beneficial)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

BORODULINA, T.L.

Biology of the Altai mole. Trudy Inst.morf.zhil. no.9:250-280  
'53. (MIRA 7:11)  
(Moles (Animals))

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

BORODULINA, T.L.

Significance of laridine birds for fish spawning and rearing farms.  
Vop. ikht. no.11:205-209 '58. (MIRA 12:1)

1. Institut morfologii zhivotnykh AN SSSR,  
(Gulls) (Fish culture)

BORODULINA, T.L.

(Vadz.)

Biology and economic importance of laridine birds in southern  
waters of the U.S.S.R. Izv. vuzov. prirodoznavch. ser. no. 34:3-120  
'60. (MEGA 14:2)

(Russia, Southern—Gulls) (Russia, Southern—Terns)

BORODULINA, T.L.

Morphological features of the attachment of feathers in bird wings. Zool.shur. 39 no.1:124-135 Ja '60.  
(MIRA 13:5)

1. Institute of Animal Morphology, U.S.S.R. Academy of Sciences, Moscow.  
(Wings) (Ligaments) (Birds--Anatomy)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

YAKOBI, V.E.; KOKSHAYSKIY, N.V.; BORODULINA, T.L.; SHESTAKOVA,  
G.S., doktor biol. nauk, prof., otv. red.; BROVKINA, Ye.T.,  
red.izd-va; KHENOKH, F.M., tekhn. red.

[Functional morphology of birds] Funktsional'naia morfolo-  
giia ptits. Moskva, Izd-vo "Nauka," 1964. 91 p.  
(MIRA 17:4)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

PORCHILIANA, T.L.

Morphologic adaptation of birds to the aquatic way of life.  
Ornitologia no. 6:456-460 '63. (MTRA 17:6)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

BORODULINA, T.L.

Structure of coverts of birds as related to their flight.  
Zool. zhur. 43 no.12:1826-1836 '64 (MIRA 18:2)

1. Institut morfologii zhivotnykh AN SSSR, Moskva.

YURKEVICH, A.M.; BORODULINA, V.I.; PLODOVATENSKIY, N.A.

Spectrophotometric study of the reaction of cyanocobalamin with  
amino acids. Zher. ob. khim. 3<sup>rd</sup> no.1:15-20 (a 1961).

(MTRB 18:2)

1. Vsesoyuznyy nauchno-issledovatel'stvennyy vitaminnyy institut.

BORODULINA, V.V.; BOLDYREVA, G.G.; VISHOMIRSKIS, R.M. [Visomirskis, R.];  
MOLCHADSKIY, A.M.

Study of the process of electrodeposition of palladium from  
tetrammine chlorite solutions. Trudy AN Lit.SSR. Ser. B. no.2:  
49-59 '65. (MIRA 19:2)

1. Institut khimii i khimicheskoy tekhnologii AN Litovskoy SSR.  
Submitted September 22, 1964.

5(2)

SOV/78-4-10-34/40

AUTHOR: Borodulina, Ye. K.

TITLE: Investigation of the Conditions of Calcium Hydroxychlorate Preparation

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 10,  
pp 2390 - 2398 (USSR)

ABSTRACT: Calcium chlorates exerts a herbicidal action and are distinguished from  $KClO_3$  and  $NaClO_3$  by their hygroscopicity thus excluding the inflammability which exists in the case of alkali chlorates. In the production of calcium chlorates, however, side reactions occur which render the preparation of a salt with sufficient chlorate content difficult. The paper by I. I. Vol'nov shows, however, that in the system  $Ca(ClO_3)_2 - Ca(OH)_2 - H_2O$  at  $75^\circ$  the calcium hydroxychlorate of the composition  $Ca(ClO_3)_2 \cdot Ca(OH)_2$  is formed. Since this compound contains 74% chlorate it had to be an efficient herbicide. In order to investigate the conditions for the preparation of this compound, the systems 1)  $Ca(ClO_3)_2 - Ca(OH)_2 - H_2O$  at  $0^\circ$  and  $25^\circ$  and 2)  $Ca(ClO_3)_2 - CaCl_2 - Ca(OH)_2 - H_2O$  at  $25^\circ$  were investigated. The

Card 1/2

## Investigation of the Conditions of Calcium Hydroxy-chlorate Preparation

SOV/78-4-10-34/40

author refers to the data published on these systems, among them S. Z. Makarov and I. I. Vol'nov (Refs 7 and 10) and A. I. Zaslavskiy (Ref 11). The experimental data are given in tables 1-4 and figures 1-8. In system 1 the monobasic calcium-hydroxy-chlorate is formed at 25°. At 0° besides the salt  $\text{Ca}(\text{ClO}_3)_2$ .

$\cdot 3\text{Ca}(\text{OH})_2 \cdot 12\text{H}_2\text{O}$  occurs. In the system 2 the phase regions for the following solid phases were defined:  $\text{Ca}(\text{OH})_2$ ,  $\text{CaCl}_2 \cdot 3\text{Ca}(\text{OH})_2 \cdot 12\text{H}_2\text{O}$ ,  $\text{CaCl}_2 \cdot \text{Ca}(\text{OH})_2 \cdot \text{H}_2\text{O}$ ,  $\text{Ca}(\text{ClO}_3)_2 \cdot \text{Ca}(\text{OH})_2$ ,  $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$ ,  $\alpha\text{-CaCl}_2 \cdot 4\text{H}_2\text{O}$  and  $\text{Ca}(\text{ClO}_3)_2 \cdot 2\text{H}_2\text{O}$ . The position of the phase regions for  $\text{CaCl}_2 \cdot 3\text{Ca}(\text{OH})_2 \cdot 12\text{H}_2\text{O}$  and  $\text{Ca}(\text{ClO}_3)_2 \cdot \text{Ca}(\text{OH})_2$  (Fig 8) suggests the possibility of obtaining the hydroxychlorate by precipitation of the tribasic hydroxychloride and subsequent concentration by evaporation of the solution. The hydroxychloride could be of use in cement industry, the hydroxychlorate as herbicide. The author expresses her gratitude to Professor S. M. Makarov for valuable advice. There are 8 figures, 4 tables, and 13 references, 4 of which are Soviet.

SUBMITTED: May 29, 1958  
Card 2/2

BORODULINA, Ye. M. Cand Chem Sci -- "Study of the conditions of production  
of calcium hydroxychlorate." Mos, 1960 (Mos Inst of Fine Chem Technology im  
M. V. Lomonosov). (KL, 1-61, 181)

-44-

1. LEPSKIY, A. V.; BORODULINA, YE. V., Eng.
2. USSR 600
4. Railroads - Cars
7. Improved methods of loading and unloading work at the Kriukov railroad car plant, Mekh. trud, rab, 6, No. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

LIMPSKIY, A.V., kand.tekhn.nauk; BORODULINA, Ye.V., inzh.

Methods and examples of establishing advanced time norms for  
loading and unloading of lumber from cars. Trudy TSNII MPS  
no.151:21-71 '58. (MIRA 11:12)  
(Loading and unloading) (Lumber--Transportation)

BORODULINA, Ye.V., inzh.

Methods and examples of establishing advanced time norms for  
mechanized loading and unloading of cement from cars. Trudy  
TSNII MPS no.151:139-158 '58. (MIRA 11:12)  
(Loading and unloading) (Cement--Transportation)

LEPSKIY, A.V.; BORODULINA, Ye.V.; UGODIN, Ye.G.; PLYUKHIN, D.S.; MOROZOV, E.N.;  
DRUGAL', S.A.; KHARITONOV, Ye.V.; RAMODIN, V.N.; CHUPRIKOV, S.A.

[Over-all mechanization and automation of the unloading of bulk  
freight.] Kompleksnaia mekhanizatsiia i avtomatizatsiia vygruzki  
sypuchikh gruzov. Moskva, Transport, 1964. 182p. (Trudy  
Vsesoiuznogo nauchno-issledovatel'skogo instituta zheleznodo-  
rozhnogo transporta, no.285).

(MIRA 17:12)

"APPROVED FOR RELEASE: 06/09/2000

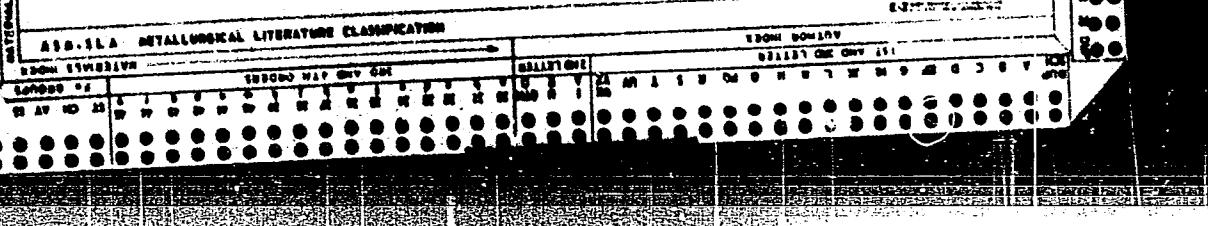
CIA-RDP86-00513R000206510005-2

*Specimen*

*13-14-1*

*B.C.*

*Location of [redacted] committee on metallization  
[redacted] (Tech. Sci. Inst.  
[redacted] U.S.S.R.) [redacted] [redacted] [redacted] [redacted]  
[redacted] activity of  
[redacted] Dr. A.M. (p)*



APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

USSR/Biology

BORODULINA Yu. S.

FD 306

Card 1/1

Author : Voznyakovskaya, Yu. M. and Borodulina, Yu. S.  
Title : News Section: Enlarged plenum of the Agrochemistry Section of VASKhNIL [The All-Union Academy of Agricultural Sciences imeni Lenin]. concerning problems of agricultural microbiology  
Periodical : Mikrobiologiya, 23, 388-390, May/Jun 1954  
Abstract : The plenum was devoted to a discussion of the research goals and problems of agricultural microbiology in the light of the resolution of the September plenum of the Central Committee of the CPSU. The plenum, attended by about 400 persons, was held at the All-Union Institute of Agricultural Microbiology in Leningrad from December 21-26, 1953. The names of those who presented papers and brief summaries of several of the papers are given.  
Institution : --  
Submitted : --

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2

*BORODULINA, Yu. S.*

IZRAIL'SKIY, V.P.; BORODULINA, Yu.S.

"Problems in the use of bacterial fertilizers." Mikrobiologiya 23  
no.6:751-755 N-D '54. (MIRA 8:2)  
(BACTERIOLOGY, AGRICULTURAL)  
(FERTILIZERS AND MANURMS)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206510005-2"

USSR / Cultivated Plants. Fodder Crops.

M-5

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58648

Author : D'yakova, E. V.; Borodulina, Yu. S.  
Inst : All-Union Scient.-Res. Institute of Fodders  
Title : The Effect of Liming on the Increase of Activity of  
Root Tuberole Bacteria of Red Clover and Alfalfa

Orig Pub : Byul. nauchno-tekhn. inform. Vses. n.-i. in-t kormov,  
1957, No 2-3, 42-47

Abstract : Studies, conducted in 1953 - 1955 on turf-podzolic  
argillaceous soil (pH 4.4), showed that the introduction  
of lime and other fertilizers greatly increases the nitro-  
gen fixing capacity of root tuberole bacteria in clover  
and alfalfa. In vegetation experiments (in sandy crops)  
where root tuberole bacteria, isolated from soils,  
fertilized by P<sub>50</sub>K<sub>50</sub> + 5 cwt/ha lime, or K<sub>50</sub> + organo-  
mineral mixture (with 5 cwt/ha lime) 3 t/ha, or

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USSR / Cultivated Plants. Fodder Crops.

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Abs Jour : Ref Zhur - Biologija, No 13, 1958, No. 58648

P<sub>50</sub>K<sub>50</sub> + 20 t/ha manure + 4.5 t/ha lime or P<sub>50</sub>K<sub>50</sub> + t 2.5 t/ha lime were introduced, the total content of N in 100 plants was, respectively, 183.7, 152.5, 178.9 and 209.3 mg. At the same time, the quantity of N in the control batch (P<sub>50</sub>K<sub>50</sub> without lime) was 14.0 mg. The increment in the yield of hay was, respectively, 10.4, 16, 41.8 and 39.5 cwt/ha, in the yield of seeds: 0.57, 0.77, 1.44 and 1.36 cwt/ha. The activity of root tubercle bacteria of clover diminished during the period of early spring growth, particularly on soil not subjected to liming. Diminishing the soil acidity down to a weak acid reaction (pH 5.0 - 5.4) had considerably less action on root tubercle bacteria of alfalfa. Only the liming of soil up to a reaction close to neutral (pH 6) guaranteed their high activity. -- B. T. Konik

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S/170/62/005/011/007/008  
B104/B102AUTHORS: Borodulya, V. A., Tamarin, A. I.

TITLE: Use of an instantaneous heat source for studying the particle agitation in a pseudo-fluidized bed

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 11, 1962, 101 - 104

TEXT: The pseudo-fluidized bed is assumed to consist of two ideal fluids, one of which is a pseudo-fluidized gas moving upward and the other being the particles to be agitated. This idealized fluid has an effective thermal diffusivity coefficient characterized by the diffusion of the particles in the bed. If hot particles exist in a cold gas the Fourier-Kirchhoff equation  $\frac{\partial \theta}{\partial \tau} + (w \text{grad } \theta) = A \nabla^2 \theta - \frac{a_F}{c_w \gamma_w} (\theta - t)$ , (1) holds for the particles and the Fourier-Kirchhoff equation

$$\frac{\partial t}{\partial \tau} + (u \text{grad } t) = a \nabla^2 t + \frac{a_F}{c_g \gamma_g} (\theta - t). \quad (2) \text{ holds for the pseudo-fluidized gas}$$

These two equations lead to  $\frac{\partial \theta}{\partial \tau} = A \nabla^2 \theta - \left[ \frac{\partial t}{\partial \tau} + (u \text{grad } t) - a \nabla^2 t \right] \frac{c_g \gamma_g}{c_w \gamma_w}$ . (3)

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for  $w = 0$  (no directed particle motion). Since  $c_{B\wedge B}/c_{M\wedge M}$  is approximately equal to 0.005 if the gas is pseudo-fluidized, equation (3) can be replaced by  $\partial\theta/\partial t = Av^2\theta$  (4). Hence it follows that the thermal diffusivity coefficient is numerically equal to the diffusion coefficient of the particles in a pseudo-fluidized bed. With an instantaneous heat source, (4) has the known solution

$$\theta_{(x, y, z, \tau)} - \theta_0 = \frac{b}{(2\sqrt{\pi}A\tau)^3} \exp\left[-\frac{x^2 + y^2 + z^2}{4A\tau}\right] \quad (5)$$

The correctness of the approximation made here was checked by an experimental arrangement consisting of a glass tube (175 mm in diameter, 1.5 m high) into which air was blown from below through a grating. A known quantity of particles heated to a certain temperature was led into the fluidized bed through a quartz tube inserted into the glass tube from above. The position of this quartz tube could be varied. The thermal diffusivity in the vertical and the horizontal direction was measured with two chromium-nickel thermocouples. Thermal diffusivity in the vertical direction was higher, by almost one order of magnitude, than in the horizontal direction and increased with the gas velocity. There is 1 table.

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SUBMITTED: July 4, 1962

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1. Institut teplo- i massoobmena AN BSSR, Minsk.